| Γ | Excelsior | | | | | | | | | | G | unnis | on Proj | ect- Histo | orical L | og | | | | | | | |
|----------------|----------------|--------|-------|------|---|----|-------|---------|---------|------|--------------------------------|-------|---------|-------------|----------|-------------|------------|----|---|------------|------------|------------|------------|
| | e Nar | | | | | | | | | | | | | | | | | | ſ | Date: 08 F | ebruary 11 | | |
| Segn | nent Sta | art De | pth : | 0.00 | | | | | | | Segment End Depth :178.03 | | | | End | of hole Dep | oth :1195. | 00 | | | | | |
| Depth | CoreLoss? | | V1 \ | 2 PF | v | SG | AltnC | odeFmCd | odelock | Cod | | | | Description | | | | | | | TCU_ac | lj ASCU_ad | dj MO |
| _ 50 | 75 50 25 | | | | | | nc | 1 Qa | ıl Qı | rl r | Alluvium and Gila conglomerate | | | | | | | | | | | | |
| _ 100 _ 125 | | | | | | | | | | | | | | | | | | | | | | | |
| _ 150 _ 175 | | | | | | | | | | | | | | | | | | | | | | | |
| Scale | 1" = 30 |)' | | | | | _ | | | | | | | | | | | | | | | Pa | nge 1 of 7 |

| | Hole Name :J-02 | | | | | | | | | | | | | Gu | ınnis | on Pr | oject- F | listori | cal Lo | g | | | | | | | |
|-------|-----------------|-------|-------|-------|------|---|----|--------|--------|--------|-------|------------|----------------------|------------|-------|-------|-------------|---------|--------|----------|-----------|----|----------|----------|---------|----------|-----------|
| | | | | | | | | | | | | | | | | | | | | | | | Date: 08 | 3 Februa | ry 11 | | |
| Segn | ent St | art D | Depth | ı :17 | 8.03 | } | | | | | | | Segment End Dep | th :356.06 | | | | | End of | hole Dep | th :1195. | 00 | | | | | |
| Depth | CoreLoss | | F V1 | V2 | PF | v | SG | AltnCo | odeFmC | odeloc | ckCod | | | | | | Description | | | | | | | | TCU_adj | ASCU_adj | МО |
| _ 200 | 75 50 25 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| _ 225 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| _ 250 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| _ 275 | | | | | | | | nd | Q | al (| Qal | Alluvium a | nd Gila conglomerate | | | | | | | | | | | | | | |
| _ 300 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| _ 325 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| _ 350 | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Scale | 1" = 3 | 0' | | | | | | | | | | | | | | | _ | | | | | | | | | Pag | ge 2 of 7 |

| | Excelsion Hole Name: J-02 | | | | | | | | | | | Guni | nis | on Proj | ect- Histo | orical | Log | | | | | | | |
|-------|---------------------------|--------|-------|-------|---|----|--------|---------|-----------|------------|-----------------------|------------|-----|---------|-------------|--------|-------------|-----------|------|----------|----------|---------|----------|-----------|
| | | | | | | | | | | | | | | | | | | | | Date: 08 | 8 Februa | ry 11 | | |
| Segn | ent Sta | art De | pth : | 356.0 | 6 | | | | | | Segment End Dep | th :534.08 | | | | End | d of hole D | epth :119 | 5.00 | | | | | |
| Depth | CoreLoss9 | | V1 V | 2 PF | v | SG | AltnCo | d€FmCoo | lelockCod | | | | | | Description | | | | | | | TCU_adj | ASCU_adj | ј МО |
| _ 375 | 75 | | | | | | | | | | | | | | | | | | | | | | | |
| _ 400 | | | | | | | | | | | | | | | | | | | | | | | | |
| _ 425 | | | | | | | | | | | | | | | | | | | | | | | | |
| _ 450 | | | | | | | nd | Qal | Qal | Alluvium a | ind Gila conglomerate | | | | | | | | | | | | | |
| _ 475 | | | | | | | | | | | | | | | | | | | | | | | | |
| _ 500 | | | | | | | | | | | | | | | | | | | | | | | | |
| _ 525 | | | | | | | | | | | | | | | | | | | | | | | | |
| Scale | 1" = 30 |)' | | | | | | | | | | | | | | | | | | | | | Pag | ge 3 of 7 |

| F | ХC | els | 0 | R P | | | | | | Gunnison Project- Histori | cal Log | | | | | |
|------------------|----------------|---------------------|---------------|-------------------|---|---|---------|---------|----------|--|--|--------------------|---------|----------|-----------|--|
| Hole | le Name :J-02 | | | | | | | | | | | Date: 08 Februa | ry 11 | | | |
| Segm | ent St | art De _l | oth :5 | 34.0 | 8 | | | | | Segment End Depth :712.11 | End of hole Depth :1195.00 | | | | | |
| Depth | CoreLoss | 6 IF | V1 V2 | PF | v | SG | AltnCoo | deFmCod | elockCod | Description | | | TCU_adj | ASCU_adj | ј МО | |
| | 75 50 25 | | | | П | | nd | Qal | Qal | Alluvium and Gila conglomerate | | | | | | |
| _ 550 | | | | | | | Тд | IPn | н | Slightly limey , very fine grained, very hard, dull greenish to dull brownish green altered shale quartz veining . The last two feet rather pinkish to green colored and has calcite in fractures. the bottom. | | | | | | |
| __ 575 | | BED | 3Q '58 | BED BED BED | 4, | | Teqd | IPn | М | White, medium grained, marble. Dark brown alteration bands every two to four feet averaging garnet, idocrase and traces of green and blue CuO. There is a1.5 foot band at 575 containing primarily of talc. | | | | | | |
| _ 600 | | BED | 35. 86 | BED BED | \$Q | Gray with light gray to white mottling and streaking or banding (probably represents bedding). Very hard, tactite. Some local cherty zones. Calcite, green and blu oxide. Some garnet and idocrase in many of the fractures of this zone. Soft clay with blue Cu oxide in fractures from 582 to 583. some local Mn dendrites (610-619). slightly shaley from 615-619. Bedding? 55-60. | | | | | | | | | | |
| _ 625 | | | | | | | | IPn | м | Slightly finer than above. Fewer and narrower dark brown alteration patches which usually caribbons are invariable along a fracture or healed fracture which is usually represented by a ca | | . The alteration | | | | |
| | | | | | Ш | | Tg | IPn | н | Altered shale. Very fine grained, light gray, hard to very hard. Patchy garnet throughout. 634 | .5-636 Dark brown alteration. | | | | | |
| _ 650 | | | | BED | white, fine to medium coarse, some relatively minor 1/2 inch dark brown alteration ribbons. Some with a trace of CuO. 663-668 Fine grained soft to hard with much darker brown alteration-garnet, idocrase?, brown calcite and talc. Rare trace of CuO. | | | | | | | | | | | |
| _ 675 | | BED | 35. | | | | nd | lPn | н | Hard, altered shale, very hard, very fine grained, light gray to creamy gray, garnet with min and ribbons, some very narrow quartz ribbons a rare trace of CuO. Bedding at 55 degrees. | or idocrase? Scattered throughout. Dark brown alt | eration patches | | | | |
| | | | | | $\ \ $ | | | IPn | М | Fine grained , medium soft to soft, light gray marble. Local minor brown alteration ribbons (: | | | | | | |
| 700 | | | | | $\ \ $ | | | IPn | Н | Hard, very fine grained. Altered shale. very fine grained, light gray,. Parallel light and dark alt parallel to bedding?) throughout. | · · · · · · · · · · · · · · · · · · · | · | | | | |
| _ 700 | | | | | | | | lPn | М | Medium to coarse grained, white marble. Local relatively minor brown alteration patches and feet. The shale zones contain brown alteration patches and ribbons, are hard, silicated and m 702.5-704.5, 725-729, 730-732, 749-751, 758-759 and 766-770. This zone appears to have be 770-794 marble, has local wollastonite patches throughout. | nay contain a very minor traces of CuO. Altered sh | ale zones are from | | | | |
| Scale | 1" = 3 | า' | | | | | | | | | | | | Pag | ge 4 of 7 | |

| I | Gunnison Project- Historical Log | | | | | | | | | | | | | | | | |
|-------|----------------------------------|---------|-------|--|----|----|--------|---------|----------|-------------------------------|--|--|--|---------------------|---------|----------|---------|
| Hole | . Nan | ne :J- | 02 | | | | | | | | | | | Date: 08 Februa | ary 11 | | |
| Segm | ent Sta | rt Dept | th :7 | 12.11 | l | | | | | S | Segment End Depth :890.14 | | End of hole Depth :1195.00 | | | | |
| Depth | CoreLoss% | IF \ | /1 V2 | PF | v | SG | AltnCo | d€FmCod | elockCod | | | Description | | | TCU_adj | ASCU_adj | ј МО |
| _ 725 | 75 - 50 - 25 | | | | | | | | | | | | | | | | |
| _ 750 | | | | | | | | lPn | М | feet. The sha 702.5-704.5, | le zones contain brown alteration patches an | nd ribbons, are hard, silicated and ma 6-770. This zone appears to have bee | ribbons. Also local light gray altered hard shale a ry contain a very minor traces of CuO. Altered st n broken and healed from 768 to 770. 772-774 a | nale zones are from | ı | | |
| _ 775 | | | | | | | | | | | | | | | | | |
| _ 800 | | | | BED | æÉ | | nd | IPn | н | | y shale. Hard, very fine grained gray. Frequen vollastonite, idocrase?). Not unlike the previo | | t. Core is very hard silicified and silicated (very fi | ne grained , garnet | i. | | |
| _ 825 | | | | | | | | | | | | | | | | | |
| _ 850 | | | | Fine to medium grained, white and light gray marble. Marble seems more highly altered with wollastonite and tremolite?, local brown (talc) ribbons and patches. Usually with traces of CuO. 823and 824 traces of green and blue Cu O. 825-834 marble pinkish and hematite stained, broken and healed. 835-836 shale softer and less altered than above zones. 850-862 Marble highly altered with many hard and soft dark brown altered patches and zones (talc), also tactite zones(garnet, diopside? wollastonite?, tremolite?). A trace of Cu O can usually be found in the dark brown zones.816-812 coarse crystalline marble. 825-827 Chert. | | | | | | | | | | | | | |
| _ 875 | | | | | | | | | | | | | | | | | |
| Scale | 1" = 30 | ' | | | | | | | | | | | | | | Pag | ge 5 of |

| | EXC | els | O COR | 1 P | | | | | | Gunniso | n Project- Historical Log | | | | |
|----------------|---|---------|--------|----------|-----|-----|--|--|----------|--|---|---------------------------------|---------|----------|-----------|
| Hol | e Nar | ne :J | -02 | | | | | | | | Dat | te: 08 Februa | ry 11 | | |
| Segm | nent Sta | art Dep | pth :8 | 90.14 | 1 | | | | | Segment End Depth :1068.17 | End of hole Depth :1195.00 | | | | |
| Depth | CoreLoss9 | 6 IF | V1 V2 | PF | v | SG | AltnCo | deFmCod | etockCod | | Description | | TCU_adj | ASCU_adj | МО |
| _ 900 _ 925 | 75 — 50 — — — — — — — — — — — — — — — — — | | | | | | | lPn | м | Usually with traces of CuO. 823and 824 traces of green and blu less altered than above zones. 850-862 Marble highly altered v | seems more highly altered with wollastonite and tremolite?, local brown (talc) ribbon Je Cu O. 825-834 marble pinkish and hematite stained, broken and healed. 835-836 s with many hard and soft dark brown altered patches and zones (talc), also tactite zon ly be found in the dark brown zones.816-812 coarse crystalline marble. 825-827 Cher | hale softer and nes(garnet, | | | |
| _ 950 | | | | | | | | lPn | Тд | Many brown alteration patches and zones. Some containing rh dendritic Mn. | nodochrosite and traces of CuO, some light creamy soft clay zones. Some zones of tac | tite? With | | | |
| | | | | | | | | IPn | М | Fine-grained , light gray to white. Slightly hard. | | | | | |
| 975 | | | | | | | | lPn | Tda | Light , gray , hard , fine to medium grained with black dendrition | Mn, some minor specks of Cu O. | - | | | |
| | | | | | | | nd | IPn | Twt | Altered marble. White, medium grained marble with wollastor | nite and tremolite. | | | | |
| _1000 | | | | | | | | | | | | | | | |
| _1025 | ; | | | | lPn | Tda | chalcocite associated with green Cu O. some disseminated cha | , very weakly limey. Weekly mineralized with disseminated Cu. The copper occurs as loopyrite noted in fractures, also associated with chalcocite and green Cu O noted, a -1019 tactite very weakly mineralization practically nil. 1037-1046 Soft, limey, very find d shale. Cu mineralization practically nil. | ltered | | | | | | |
| _1050 | 1050 | | | | | | | lPn | н | Altered shale, very fine-grained ,limey, brown and gray altered zones contain a trace of Cu O. Calcite as fractures fillings. | l zones, hard to medium soft. Similar to altered shale zones above. Most of the brown | n patches and | | | |
| Scale | 2 1" = 30 |)' | | <u> </u> | Ш | | | | | | | | | Pag | ge 6 of 7 |

| Exc | elsio | R P | | | | | | Gunnison Project- Historical Log | | | | | | | | | |
|-----------------|-----------------|---------|---|--------|----------|--------|---------------------------|---|--|---|------------------|---------|----------|-----------|--|--|--|
| Hole Nan | ne :J-02 | | | | | | | | | | Date: 08 Februa | ıry 11 | | | | | |
| Segment Sta | rt Depth : | 1068.17 | , | | | | | Segment End Depth :1246.19 | | End of hole Depth :1195.00 | | | | | | | |
| Depth CoreLoss% | 6 IF V1 V | 2 PF | v SG | AltnCo | deFmCode | ockCod | | | Description | | | TCU_adj | ASCU_adj | МО | | | |
| 1075 | | | | | IDN | , | | ale, very fine-grained ,limey, brown and gray alte ain a trace of Cu O. Calcite as fractures fillings. | red zones, hard to medium soft. Sir | nilar to altered shale zones above. Most of the b | rown patches and | | | | | | |
| _1100 | | | | | IPn | Tda | Weakly mir green Cu O | | ized tactite. Fine grained white and Tannish gray. Hard, very weakly mineralization tactite. Mineralization as specks of chalcocite usually with a | | | | | | | | |
| | | | Altered limey shale. Very fine grained , brown and light gray medium soft to soft. Locally mottled in appearance, altered limey shale. Some minor Cu O staining fractures. | | | | | | | | | | | | | | |
| 1125 | | | | | IPn | Н | Slightly pinl | kish, white, soft, fine grained weakly altered mar | ble. | | | | | | | | |
| _1150 | | | | nd | IPn | Tda | brown limo limonite ma | Altered oxidized marble? 1125-1139 Broken and healed brecciated limey zone. Much pink brecciated limey. Much pink, brown and red iron-staining, mostly light brown limonite in fractures. Much if the brown material in vugs lined with calcite. 1139-1160 Core is white and gray fine grained, relatively soft light brown imonite many fractures (but not nearly as extensive as above), altered marble. some healed fractures filled with calcite, some calcite lined vugs. 1160-1164 zone—appears to be white marble fragments surrounded by dark brown alteration material in the interstices. this entire zone has only weakly local CuO staining and no ulfides. | | | | | | | | | |
| _1175 | | | Marble highly altered with patchy calc silicates(tremolite?) and wollastonite) giving core a brecciated to conglomerated appearance. Core practically barren. 1183-1188 core weakly disseminated with chalcocite specks. | | | | | | | | | | | | | | |
| - | $\sqcup \sqcup$ | | \perp | _ | IPn | М | Fine to med | dium grained , weakly altered vuggy marble. Vugs | lined with calcite. | | | | | | | | |
| 1225 | | | | | | | | | | | | | | | | | |
| Scale 1" = 30 |)' | | | | | | | | | | | | Pag | ge 7 of 7 | | | |